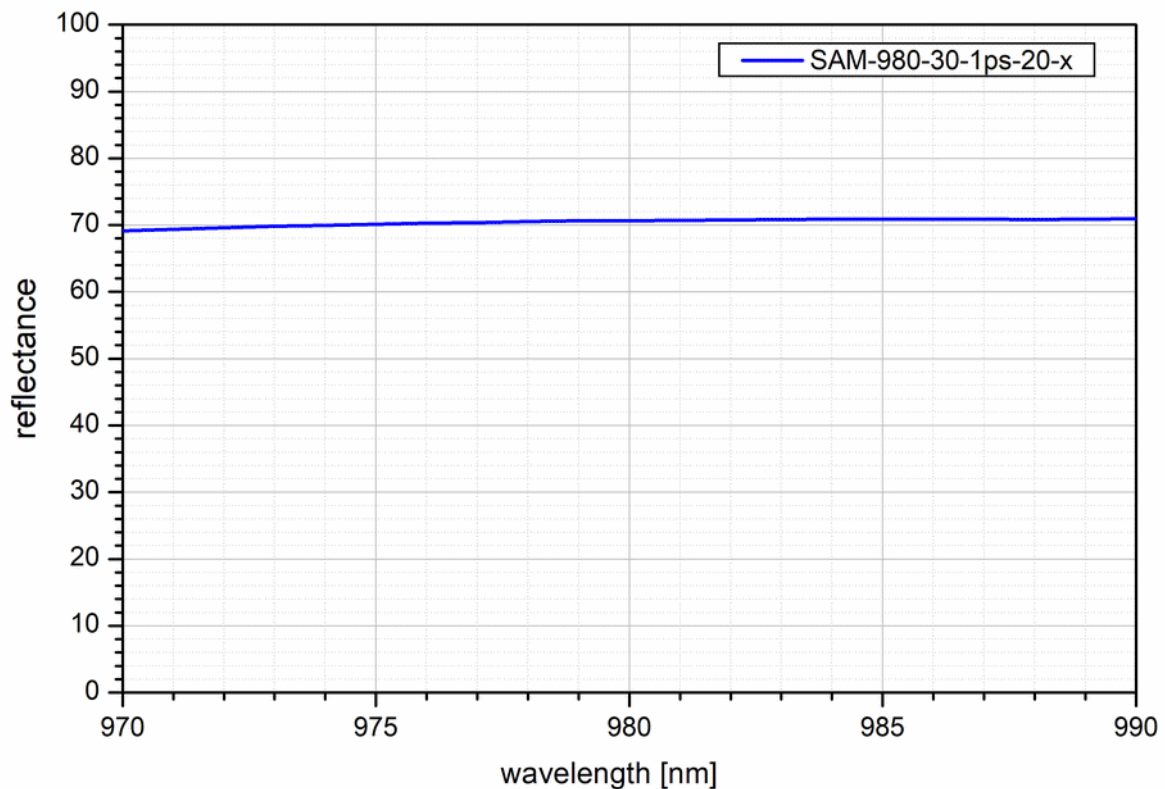


SAM™ Data Sheet SAM-980-30-1ps-20-x

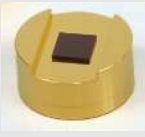

	Minimum	Typical Value	Maximum
Operational wavelength λ		980 nm	
High reflection band	960 nm		1010 nm
Absorbance A	24%	30%	36%
Modulation depth ΔR	15 %	21 %	
Saturation fluence Φ_{sat}	10 $\mu\text{J}/\text{cm}^2$	20 $\mu\text{J}/\text{cm}^2$	30 $\mu\text{J}/\text{cm}^2$
Relaxation time constant τ	0.5 ps	1 ps	2 ps
Damage threshold Φ		800 $\mu\text{J}/\text{cm}^2$	
Absorber Peak Temperature			150°C ¹
Chip thickness	425 μm	450 μm	475 μm
Protection	SAM is protected with a dielectric front layer		

¹ Please make sure that this temperature is not exceeded in pulsed operation shortly after the optical pulse.

Unsaturated spectral reflectance, measured at room temperature with 6° AOI



wafer 1451-l

Mounting Options SAM-980-30-1ps-20-x	Description
x = 4.0-0	Single chip, unmounted, chip size 4.0mm x 4.0mm
x = 1.0b-0	Batch of 4 unmounted chips, chip size 1.0mm x 1.0mm
x = 1.3b-0	Batch of 4 unmounted chips, chip size 1.3mm x 1.3mm
x = 4.0-12.7g-c / 4.0-12.7g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 4.0-25.0g-c / 4.0-25.0g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 25.0 mm \varnothing
x = 4.0-25.4g-c / 4.0-25.4g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 4.0-12.7s-c / 4.0-12.7s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 4.0-25.0s-c / 4.0-25.0s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 25.0 mm \varnothing
x = 4.0-25.4s-c / 4.0-25.4s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 4.0-25.0w-c / 4.0-25.0w-e	chip size 4.0mm x 4.0mm, soldered on a water cooled copper heat sink with 25.0 mm diameter
x = 4.0-25.4h-c / 4.0-25.4h-e	chip size 4.0mm x 4.0mm, thin film soldered on a water cooled copper heat sink with 25.0 mm diameter for high power application
-c Center mounting 	-e Edge mounting 
x = FC/(A)PC-SMF	mounted on a 1 m long single mode fiber - FC/PC connector: x = FC/PC-SMF - FC/APC connector: x = FC/APC-SMF available fiber types: HI1060
x = FC/(A)PC-PMF	mounted on a 1 m long polarization maintaining single mode fiber - FC/PC connector: x = FC/PC-PMF - FC/APC connector: x = FC/APC-PMF available fiber types: SM98-PS-U25D
Other chip dimensions are also possible, please ask.	